



#3

SEQUENCE LISTING

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<120> CHIMERIC G PROTEIN COUPLED RECEPTORS

<130> 10602-013-999

<140> 09/904,099

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<160> 38

<170> PatentIn version 3.1

<210> 1

<211> 382

<212> PRT

<213> Homo sapiens

<400> 1

Met	Gly	Pro	Thr	Ser	Val	Pro	Leu	Val	Lys	Ala	His	Arg	Ser	Ser	Val
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Ser	Asp	Tyr	Val	Asn	Tyr	Asp	Ile	Ile	Val	Arg	His	Tyr	Asn	Tyr	Thr
			20					25					30		
Gly	Lys	Leu	Asn	Ile	Ser	Ala	Asp	Lys	Glu	Asn	Ser	Ile	Lys	Leu	Thr
		35					40					45			
Ser	Val	Val	Phe	Ile	Leu	Ile	Cys	Cys	Phe	Ile	Ile	Leu	Glu	Asn	Ile
	50					55					60				
Phe	Val	Leu	Leu	Thr	Ile	Trp	Lys	Thr	Lys	Lys	Phe	His	Arg	Pro	Met
65					70				75					80	
Tyr	Tyr	Phe	Ile	Gly	Asn	Leu	Ala	Leu	Ser	Asp	Leu	Leu	Ala	Gly	Val
				85					90					95	
Ala	Tyr	Thr	Ala	Asn	Leu	Leu	Leu	Ser	Gly	Ala	Thr	Thr	Tyr	Lys	Leu
			100					105					110		
Thr	Pro	Ala	Gln	Trp	Phe	Leu	Arg	Glu	Gly	Ser	Met	Phe	Val	Ala	Leu
		115					120					125			
Ser	Ala	Ser	Val	Phe	Ser	Leu	Leu	Ala	Ile	Ala	Ile	Glu	Arg	Tyr	Ile
	130					135					140				
Thr	Met	Leu	Lys	Met	Lys	Leu	His	Asn	Gly	Ser	Asn	Asn	Phe	Arg	Leu
145					150					155					160
Phe	Leu	Leu	Ile	Ser	Ala	Cys	Trp	Val	Ile	Ser	Leu	Ile	Leu	Gly	Gly
			165						170					175	
Leu	Pro	Ile	Met	Gly	Trp	Asn	Cys	Ile	Ser	Ala	Leu	Ser	Ser	Cys	Ser
		180					185						190		
Thr	Val	Leu	Pro	Leu	Tyr	His	Lys	His	Tyr	Ile	Leu	Phe	Cys	Thr	Thr
	195						200					205			
Val	Phe	Thr	Leu	Leu	Leu	Leu	Ser	Ile	Val	Ile	Leu	Tyr	Cys	Arg	Ile
	210					215					220				
Tyr	Ser	Leu	Val	Arg	Thr	Arg	Ser	Arg	Arg	Leu	Thr	Phe	Arg	Lys	Asn
225					230					235				240	
Ile	Ser	Lys	Ala	Ser	Arg	Ser	Ser	Glu	Lys	Ser	Leu	Ala	Leu	Leu	Lys
			245						250					255	
Thr	Val	Ile	Ile	Val	Leu	Ser	Val	Phe	Ile	Ala	Cys	Trp	Ala	Pro	Leu
			260					265					270		

Phe	Ile	Leu	Leu	Leu	Leu	Asp	Val	Gly	Cys	Lys	Val	Lys	Thr	Cys	Asp
		275					280					285			
Ile	Leu	Phe	Arg	Ala	Glu	Tyr	Phe	Leu	Val	Leu	Ala	Val	Leu	Asn	Ser
	290					295					300				
Gly	Thr	Asn	Pro	Ile	Ile	Tyr	Thr	Leu	Thr	Asn	Lys	Glu	Met	Arg	Arg
305					310					315					320
Ala	Phe	Ile	Arg	Ile	Met	Ser	Cys	Cys	Lys	Cys	Pro	Ser	Gly	Asp	Ser
				325					330					335	
Ala	Gly	Lys	Phe	Lys	Arg	Pro	Ile	Ile	Ala	Gly	Met	Glu	Phe	Ser	Arg
			340					345					350		
Ser	Lys	Ser	Asp	Asn	Ser	Ser	His	Pro	Gln	Lys	Asp	Glu	Gly	Asp	Asn
		355					360					365			
Pro	Glu	Thr	Ile	Met	Ser	Ser	Gly	Asn	Val	Asn	Ser	Ser	Ser		
	370					375					380				

<210> 2

<211> 378

<212> PRT

<213> Homo sapiens

<400> 2

Met	Ala	Thr	Ala	Leu	Pro	Pro	Arg	Leu	Gln	Pro	Val	Arg	Gly	Asn	Glu
1				5					10					15	
Thr	Leu	Arg	Glu	His	Tyr	Gln	Tyr	Val	Gly	Lys	Leu	Ala	Gly	Arg	Leu
			20					25					30		
Lys	Glu	Ala	Ser	Glu	Gly	Ser	Thr	Leu	Thr	Thr	Val	Leu	Phe	Leu	Val
		35					40					45			
Ile	Cys	Ser	Phe	Ile	Val	Leu	Glu	Asn	Leu	Met	Val	Leu	Ile	Ala	Ile
	50					55					60				
Trp	Lys	Asn	Asn	Lys	Phe	His	Asn	Arg	Met	Tyr	Phe	Phe	Ile	Gly	Asn
65					70				75						80
Leu	Ala	Leu	Cys	Asp	Leu	Leu	Ala	Gly	Ile	Ala	Tyr	Lys	Val	Asn	Ile
				85				90						95	
Leu	Met	Ser	Gly	Lys	Lys	Thr	Phe	Ser	Leu	Ser	Pro	Thr	Val	Trp	Phe
			100					105					110		
Leu	Arg	Glu	Gly	Ser	Met	Phe	Val	Ala	Leu	Gly	Ala	Ser	Thr	Cys	Ser
		115				120						125			
Leu	Leu	Ala	Ile	Ala	Ile	Glu	Arg	His	Leu	Thr	Met	Ile	Lys	Met	Arg
	130					135					140				
Pro	Tyr	Asp	Ala	Asn	Lys	Arg	His	Arg	Val	Phe	Leu	Leu	Ile	Gly	Met
145					150					155					160
Cys	Trp	Leu	Ile	Ala	Phe	Thr	Leu	Gly	Ala	Leu	Pro	Ile	Leu	Gly	Trp
				165				170						175	
Asn	Cys	Leu	His	Asn	Leu	Pro	Asp	Cys	Ser	Thr	Ile	Leu	Pro	Leu	Tyr
			180					185					190		
Ser	Lys	Lys	Tyr	Ile	Ala	Phe	Cys	Ile	Ser	Ile	Phe	Thr	Ala	Ile	Leu
		195				200						205			
Val	Thr	Ile	Val	Ile	Leu	Tyr	Ala	Arg	Ile	Tyr	Phe	Leu	Val	Lys	Ser
	210					215					220				
Ser	Ser	Arg	Lys	Val	Ala	Asn	His	Asn	Asn	Ser	Glu	Arg	Ser	Met	Ala
225					230					235					240
Leu	Leu	Arg	Thr	Val	Val	Ile	Val	Val	Ser	Val	Phe	Ile	Ala	Cys	Trp
				245					250					255	
Ser	Pro	Leu	Phe	Ile	Leu	Phe	Leu	Ile	Asp	Val	Ala	Cys	Arg	Val	Gln
			260					265					270		
Ala	Cys	Pro	Ile	Leu	Phe	Lys	Ala	Gln	Trp	Phe	Ile	Val	Leu	Ala	Val
		275					280					285			
Leu	Asn	Ser	Ala	Met	Asn	Pro	Val	Ile	Tyr	Thr	Leu	Ala	Ser	Lys	Glu
	290					295					300				

Met	Arg	Arg	Ala	Phe	Phe	Arg	Leu	Val	Cys	Asn	Cys	Leu	Val	Arg	Gly
305					310					315					320
Arg	Gly	Ala	Arg	Ala	Ser	Pro	Ile	Gln	Pro	Ala	Leu	Asp	Pro	Ser	Arg
				325					330					335	
Ser	Lys	Ser	Ser	Ser	Ser	Asn	Asn	Ser	Ser	His	Ser	Pro	Lys	Val	Lys
			340					345					350		
Glu	Asp	Leu	Pro	His	Thr	Asp	Pro	Ser	Ser	Cys	Ile	Met	Asp	Lys	Asn
		355					360					365			
Ala	Ala	Leu	Gln	Asn	Gly	Ile	Phe	Cys	Asn						
	370					375									

<210> 3

<211> 391

<212> PRT

<213> Artificial

<220>

<223> Description of artificial sequence: Chimeric Edg receptor

<400> 3

Met	Gly	Pro	Thr	Ser	Val	Pro	Leu	Val	Lys	Ala	His	Arg	Ser	Ser	Val
1				5					10					15	
Ser	Asp	Tyr	Val	Asn	Tyr	Asp	Ile	Ile	Val	Arg	His	Tyr	Asn	Tyr	Thr
			20					25					30		
Gly	Lys	Leu	Asn	Ile	Ser	Ala	Asp	Lys	Glu	Asn	Ser	Ile	Lys	Leu	Thr
		35					40					45			
Ser	Val	Val	Phe	Ile	Leu	Ile	Cys	Cys	Phe	Ile	Ile	Leu	Glu	Asn	Ile
	50					55					60				
Phe	Val	Leu	Leu	Thr	Ile	Trp	Lys	Thr	Lys	Lys	Phe	His	Arg	Pro	Met
65				70					75						80
Tyr	Tyr	Phe	Ile	Gly	Asn	Leu	Ala	Leu	Ser	Asp	Leu	Leu	Ala	Gly	Val
				85					90					95	
Ala	Tyr	Thr	Ala	Asn	Leu	Leu	Leu	Ser	Gly	Ala	Thr	Thr	Tyr	Lys	Leu
			100					105					110		
Thr	Pro	Ala	Gln	Trp	Phe	Leu	Arg	Glu	Gly	Ser	Met	Phe	Val	Ala	Leu
		115					120					125			
Ser	Ala	Ser	Val	Phe	Ser	Leu	Leu	Ala	Ile	Ala	Ile	Glu	Arg	Tyr	Ile
	130					135					140				
Thr	Met	Leu	Lys	Met	Lys	Leu	His	Asn	Gly	Ser	Asn	Asn	Phe	Arg	Leu
145					150					155					160
Phe	Leu	Leu	Ile	Ser	Ala	Cys	Trp	Val	Ile	Ser	Leu	Ile	Leu	Gly	Gly
			165						170					175	
Leu	Pro	Ile	Met	Gly	Trp	Asn	Cys	Ile	Ser	Ala	Leu	Ser	Ser	Cys	Ser
			180					185					190		
Thr	Val	Leu	Pro	Leu	Tyr	His	Lys	His	Tyr	Ile	Leu	Phe	Cys	Thr	Thr
		195					200					205			
Val	Phe	Thr	Leu	Leu	Leu	Leu	Ser	Ile	Val	Ile	Leu	Tyr	Cys	Arg	Ile
	210					215					220				
Tyr	Ser	Leu	Val	Arg	Thr	Arg	Ser	Arg	Arg	Leu	Thr	Phe	Arg	Lys	Asn
225					230					235					240
Ile	Ser	Lys	Ala	Ser	Arg	Ser	Ser	Glu	Lys	Ser	Leu	Ala	Leu	Leu	Lys
			245						250					255	
Thr	Val	Ile	Ile	Val	Leu	Ser	Val	Phe	Ile	Ala	Cys	Trp	Ala	Pro	Leu
			260					265					270		
Phe	Ile	Leu	Leu	Leu	Leu	Asp	Val	Gly	Cys	Lys	Val	Lys	Thr	Cys	Asp
		275					280					285			
Ile	Leu	Phe	Arg	Ala	Glu	Tyr	Phe	Leu	Val	Leu	Ala	Val	Leu	Asn	Ser
	290					295					300				

Gly	Thr	Asn	Pro	Ile	Ile	Tyr	Thr	Leu	Thr	Ser	Lys	Glu	Met	Arg	Arg
305					310					315					320
Ala	Phe	Phe	Arg	Leu	Val	Cys	Asn	Cys	Leu	Val	Arg	Gly	Arg	Gly	Ala
				325					330					335	
Arg	Ala	Ser	Pro	Ile	Gln	Pro	Ala	Leu	Asp	Pro	Ser	Arg	Ser	Lys	Ser
			340					345				350			
Ser	Ser	Ser	Asn	Asn	Ser	Ser	His	Ser	Pro	Lys	Val	Lys	Glu	Asp	Leu
		355				360						365			
Pro	His	Thr	Asp	Pro	Ser	Ser	Cys	Ile	Met	Asp	Lys	Asn	Ala	Ala	Leu
	370					375					380				
Gln	Asn	Gly	Ile	Phe	Cys	Asn									
385					390										

<210> 4

<211> 384

<212> PRT

<213> Artificial

<220>

<223> Description of artificial sequence: Chimeric Edg receptor

<400> 4

Met	Gly	Pro	Thr	Ser	Val	Pro	Leu	Val	Lys	Ala	His	Arg	Ser	Ser	Val
1				5					10					15	
Ser	Asp	Tyr	Val	Asn	Tyr	Asp	Ile	Ile	Val	Arg	His	Tyr	Asn	Tyr	Thr
			20				25						30		
Gly	Lys	Leu	Asn	Ile	Ser	Ala	Asp	Lys	Glu	Asn	Ser	Ile	Lys	Leu	Thr
		35				40						45			
Ser	Val	Val	Phe	Ile	Leu	Ile	Cys	Cys	Phe	Ile	Ile	Leu	Glu	Asn	Ile
	50				55						60				
Phe	Val	Leu	Leu	Thr	Ile	Trp	Lys	Thr	Lys	Lys	Phe	His	Arg	Pro	Met
65				70					75					80	
Tyr	Tyr	Phe	Ile	Gly	Asn	Leu	Ala	Leu	Ser	Asp	Leu	Leu	Ala	Gly	Val
			85					90						95	
Ala	Tyr	Thr	Ala	Asn	Leu	Leu	Leu	Ser	Gly	Ala	Thr	Thr	Tyr	Lys	Leu
			100				105						110		
Thr	Pro	Ala	Gln	Trp	Phe	Leu	Arg	Glu	Gly	Ser	Met	Phe	Val	Ala	Leu
		115				120						125			
Ser	Ala	Ser	Val	Phe	Ser	Leu	Leu	Ala	Ile	Ala	Ile	Glu	Arg	Tyr	Ile
	130				135						140				
Thr	Met	Leu	Lys	Met	Lys	Leu	His	Asn	Gly	Ser	Asn	Asn	Phe	Arg	Leu
145				150					155						160
Phe	Leu	Leu	Ile	Ser	Ala	Cys	Trp	Val	Ile	Ser	Leu	Ile	Leu	Gly	Gly
			165					170						175	
Leu	Pro	Ile	Met	Gly	Trp	Asn	Cys	Ile	Ser	Ala	Leu	Ser	Ser	Cys	Ser
			180					185					190		
Thr	Val	Leu	Pro	Leu	Tyr	His	Lys	His	Tyr	Ile	Leu	Phe	Cys	Thr	Thr
		195				200						205			
Val	Phe	Thr	Leu	Leu	Leu	Leu	Ser	Ile	Val	Ile	Leu	Tyr	Cys	Arg	Ile
	210				215					220					
Tyr	Ser	Leu	Val	Arg	Ser	Ser	Ser	Arg	Lys	Val	Ala	Asn	His	Asn	Asn
225				230					235					240	
Ser	Glu	Arg	Ser	Met	Ala	Leu	Leu	Arg	Thr	Val	Ile	Ile	Val	Leu	Ser
			245					250						255	
Val	Phe	Ile	Ala	Cys	Trp	Ala	Pro	Leu	Phe	Ile	Leu	Leu	Leu	Leu	Asp
		260				265						270			
Val	Gly	Cys	Lys	Val	Lys	Thr	Cys	Asp	Ile	Leu	Phe	Arg	Ala	Glu	Tyr
		275				280						285			

Phe	Leu	Val	Leu	Ala	Val	Leu	Asn	Ser	Gly	Thr	Asn	Pro	Ile	Ile	Tyr
290						295					300				
Thr	Leu	Thr	Ser	Lys	Glu	Met	Arg	Arg	Ala	Phe	Phe	Arg	Leu	Val	Cys
305				310						315					320
Asn	Cys	Leu	Val	Arg	Gly	Arg	Gly	Ala	Arg	Ala	Ser	Pro	Ile	Gln	Pro
				325					330					335	
Ala	Leu	Asp	Pro	Ser	Arg	Ser	Lys	Ser	Ser	Ser	Ser	Asn	Asn	Ser	Ser
			340					345					350		
His	Ser	Pro	Lys	Val	Lys	Glu	Asp	Leu	Pro	His	Thr	Asp	Pro	Ser	Ser
		355					360					365			
Cys	Ile	Met	Asp	Lys	Asn	Ala	Ala	Leu	Gln	Asn	Gly	Ile	Phe	Cys	Asn
	370					375					380				

<210> 5

<211> 384

<212> PRT

<213> Artificial

<220>

<223> Description of artificial sequence: Chimeric Edg receptor

<400> 5

Met	Gly	Pro	Thr	Ser	Val	Pro	Leu	Val	Lys	Ala	His	Arg	Ser	Ser	Val
1				5					10					15	
Ser	Asp	Tyr	Val	Asn	Tyr	Asp	Ile	Ile	Val	Arg	His	Tyr	Asn	Tyr	Thr
			20					25					30		
Gly	Lys	Leu	Asn	Ile	Ser	Ala	Asp	Lys	Glu	Asn	Ser	Ile	Lys	Leu	Thr
		35					40					45			
Ser	Val	Val	Phe	Ile	Leu	Ile	Cys	Cys	Phe	Ile	Ile	Leu	Glu	Asn	Ile
	50					55					60				
Phe	Val	Leu	Leu	Thr	Ile	Trp	Lys	Thr	Lys	Lys	Phe	His	Arg	Pro	Met
65				70					75						80
Tyr	Tyr	Phe	Ile	Gly	Asn	Leu	Ala	Leu	Ser	Asp	Leu	Leu	Ala	Gly	Val
			85						90					95	
Ala	Tyr	Thr	Ala	Asn	Leu	Leu	Leu	Ser	Gly	Ala	Thr	Thr	Tyr	Lys	Leu
			100					105					110		
Thr	Pro	Ala	Gln	Trp	Phe	Leu	Arg	Glu	Gly	Ser	Met	Phe	Val	Ala	Leu
		115					120					125			
Ser	Ala	Ser	Val	Phe	Ser	Leu	Leu	Ala	Ile	Ala	Ile	Glu	Arg	His	Leu
	130					135					140				
Thr	Met	Ile	Lys	Met	Arg	Pro	Tyr	Asp	Ala	Asn	Lys	Arg	His	Arg	Leu
145				150						155					160
Phe	Leu	Leu	Ile	Ser	Ala	Cys	Trp	Val	Ile	Ser	Leu	Ile	Leu	Gly	Gly
			165						170					175	
Leu	Pro	Ile	Met	Gly	Trp	Asn	Cys	Ile	Ser	Ala	Leu	Ser	Ser	Cys	Ser
			180					185					190		
Thr	Val	Leu	Pro	Leu	Tyr	His	Lys	His	Tyr	Ile	Leu	Phe	Cys	Thr	Thr
		195				200						205			
Val	Phe	Thr	Leu	Leu	Leu	Leu	Ser	Ile	Val	Ile	Leu	Tyr	Cys	Arg	Ile
	210					215					220				
Tyr	Ser	Leu	Val	Arg	Ser	Ser	Ser	Arg	Lys	Val	Ala	Asn	His	Asn	Asn
225				230						235					240
Ser	Glu	Arg	Ser	Met	Ala	Leu	Leu	Arg	Thr	Val	Ile	Ile	Val	Leu	Ser
			245						250					255	
Val	Phe	Ile	Ala	Cys	Trp	Ala	Pro	Leu	Phe	Ile	Leu	Leu	Leu	Leu	Asp
		260						265					270		
Val	Gly	Cys	Lys	Val	Lys	Thr	Cys	Asp	Ile	Leu	Phe	Arg	Ala	Glu	Tyr
		275					280					285			

Phe	Leu	Val	Leu	Ala	Val	Leu	Asn	Ser	Gly	Thr	Asn	Pro	Ile	Ile	Tyr
290						295					300				
Thr	Leu	Thr	Ser	Lys	Glu	Met	Arg	Arg	Ala	Phe	Phe	Arg	Leu	Val	Cys
305					310					315					320
Asn	Cys	Leu	Val	Arg	Gly	Arg	Gly	Ala	Arg	Ala	Ser	Pro	Ile	Gln	Pro
				325					330					335	
Ala	Leu	Asp	Pro	Ser	Arg	Ser	Lys	Ser	Ser	Ser	Ser	Asn	Asn	Ser	Ser
			340					345					350		
His	Ser	Pro	Lys	Val	Lys	Glu	Asp	Leu	Pro	His	Thr	Asp	Pro	Ser	Ser
		355				360						365			
Cys	Ile	Met	Asp	Lys	Asn	Ala	Ala	Leu	Gln	Asn	Gly	Ile	Phe	Cys	Asn
370						375					380				

<210> 6

<211> 30

<212> DNA

<213> Artificial

<220>

<223> Description of artificial sequence: Primer for generating chimeric Edg 1 receptors

<400> 6

cccgcggtta acatggggcc caccagcgtc

30

<210> 7

<211> 27

<212> DNA

<213> Artificial

<220>

<223> Description of artificial sequence: Primer for generating chimeric Edg 1 receptors

<400> 7

cgcggtatcct cagttgcaga agatccc

27

<210> 8

<211> 34

<212> DNA

<213> Artificial

<220>

<223> Description of artificial sequence: Primer for generating chimeric Edg 1 receptors

<400> 8

catttacact ctgaccagca aggagatgcg gcgg

34

<210> 9

<211> 34
 <212> DNA
 <213> Artificial
 <220>
 <223> Description of artificial sequence: Primer for generating chimeric Edg 1 receptors
 <400> 9
 ccgcatctcc ttgctgggtca gagtgtaaat gatg 34
 <210> 10
 <211> 34
 <212> DNA
 <213> Artificial
 <220>
 <223> Description of artificial sequence: Primer for generating chimeric Edg 1 receptors
 <400> 10
 gtctcctcgc catcgccatc gagcggcact tgac 34
 <210> 11
 <211> 33
 <212> DNA
 <213> Artificial
 <220>
 <223> Description of artificial sequence: Primer for generating chimeric Edg 1 receptors
 <400> 11
 gtcaagtgcc gctcgatggc gatggcgagg aga 33
 <210> 12
 <211> 34
 <212> DNA
 <213> Artificial
 <220>
 <223> Description of artificial sequence: Primer for generating chimeric Edg 1 receptors
 <400> 12
 cgccaacaag aggcaccgcc tcttcctgct aatc 34

<210> 13
 <211> 34
 <212> DNA
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 <220>
 <223> Description of artificial sequence: Primer for generating chimeric Edg 1 receptors
 <400> 13
 gattagcagg aagaggcggg gcctcttggt ggcg 34
 <210> 14
 <211> 34
 <212> DNA
 <213> Artificial
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 <223> Description of artificial sequence: Primer for generating chimeric Edg 1 receptors
 <400> 14
 ctactccttg gtcaggcca gcagccgtaa ggtg 34
 <210> 15
 <211> 34
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 caccttacgg ctgctggacc tgaccaagga gtag 34
 <210> 16
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 <223> Description of artificial sequence: Primer for generating chimeric Edg 1 receptors

<400> 16
 cactgctgcg gaccgtgatt atcgtcctga gcgtc 35
 <210> 17
 <211> 35
 <212> DNA
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 <220>
 <223> Description of artificial sequence: Primer for generating chimeric
 Edg 1 receptors
 <400> 17
 gacgctcagg acgataatca cgggtccgcag cagtg 35
 <210> 18
 <211> 30
 <212> DNA
 <213> Artificial
 <220>
 <223> Description of artificial sequence: Primer for generating chimeric
 Edg 5 receptors
 <400> 18
 cccgcgggtta acatgggcag cttgtactcg 30
 <210> 19
 <211> 27
 <212> DNA
 <213> Artificial
 <220>
 <223> Description of artificial sequence: Primer for generating chimeric
 Edg 5 receptors
 <400> 19
 cgcggtacct cagttgcaga agatccc 27
 <210> 20
 <211> 34
 <212> DNA
 <213> Artificial
 <220>

<223> Description of artificial sequence: Primer for generating chimeric Edg 5 receptors

<400> 20

cgtcacatctac acgtgggcca gcaaggagat gcgg 34

<210> 21

<211> 34

<212> DNA

<213> Artificial

<220>

<223> Description of artificial sequence: Primer for generating chimeric Edg 5 receptors

<400> 21

ccgcacatctcc ttgctggccc acgtgtagat gacg 34

<210> 22

<211> 34

<212> DNA

<213> Artificial

<220>

<223> Description of artificial sequence: Primer for generating chimeric Edg 5 receptors

<400> 22

catctactgc gtgggtcaagt ccagcagccg taag 34

<210> 23

<211> 34

<212> DNA

<213> Artificial

<220>

<223> Description of artificial sequence: Primer for generating chimeric Edg 5 receptors

<400> 23

cttacggctg ctggacttga ccacgcagta gatg 34

<210> 24

<211> 35

<212> DNA

<213> Artificial

<220>

<223> Description of artificial sequence: Primer for generating chimeric Edg 5 receptors

<400> 24

cactgctgcg gaccgtgacc atcgtgctag gcgtc 35

<210> 25

<211> 35

<212> DNA

<213> Artificial

<220>

<223> Description of artificial sequence: Primer for generating chimeric Edg 5 receptors

<400> 25

gacgcctagc acgatgggtca cgggtccgcag cagtg 35

<210> 26

<211> 30

<212> DNA

<213> Artificial

<220>

<223> Description of artificial sequence: Primer for generating chimeric Edg 8 receptors

<400> 26

cccgcggtta acatggagtc ggggctgctg 30

<210> 27

<211> 27

<212> DNA

<213> Artificial

<220>

<223> Description of artificial sequence: Primer for generating chimeric Edg 8 receptors

<400> 27

cgcggatcct cagtcctggt gggtggg 27

<210> 28

<211> 34

<212> DNA

<213> Artificial

<220>

<223> Description of artificial sequence: Primer for generating chimeric Edg 8 receptors

<400> 28

ccatcatcta cacgctccga gatgctgaga tgcg

34

<210> 29

<211> 34

<212> DNA

<213> Artificial

<220>

<223> Description of artificial sequence: Primer for generating chimeric Edg 8 receptors

<400> 29

cgcacatcag catctcggag cgtgtagatg atgg

34

<210> 30

<211> 364

<212> PRT

<213> Homo sapiens

<400> 30

Met	Ala	Ala	Ile	Ser	Thr	Ser	Ile	Pro	Val	Ile	Ser	Gln	Pro	Gln	Phe
1			5						10					15	
Thr	Ala	Met	Asn	Glu	Pro	Gln	Cys	Phe	Tyr	Asn	Glu	Ser	Ile	Ala	Phe
			20					25					30		
Phe	Tyr	Asn	Arg	Ser	Gly	Lys	His	Leu	Ala	Thr	Glu	Trp	Asn	Thr	Val
		35				40						45			
Ser	Lys	Leu	Val	Met	Gly	Leu	Gly	Ile	Thr	Val	Cys	Ile	Phe	Ile	Met
	50				55						60				
Leu	Ala	Asn	Leu	Leu	Val	Met	Val	Ala	Ile	Tyr	Val	Asn	Arg	Arg	Phe
65					70					75					80
His	Phe	Pro	Ile	Tyr	Tyr	Leu	Met	Ala	Asn	Leu	Ala	Ala	Ala	Asp	Phe
			85						90					95	
Phe	Ala	Gly	Leu	Ala	Tyr	Phe	Tyr	Leu	Met	Phe	Asn	Thr	Gly	Pro	Asn
			100					105					110		
Thr	Arg	Arg	Leu	Thr	Val	Ser	Thr	Trp	Leu	Leu	Arg	Gln	Gly	Leu	Ile
		115					120						125		
Asp	Thr	Ser	Leu	Thr	Ala	Ser	Val	Ala	Asn	Leu	Leu	Ala	Ile	Ala	Ile
	130					135					140				
Glu	Arg	His	Ile	Thr	Val	Phe	Arg	Met	Gln	Leu	His	Thr	Arg	Met	Ser
145				150						155					160
Asn	Arg	Arg	Val	Val	Val	Val	Ile	Val	Val	Ile	Trp	Thr	Met	Ala	Ile
			165						170					175	
Val	Met	Gly	Ala	Ile	Pro	Ser	Val	Gly	Trp	Asn	Cys	Ile	Cys	Asp	Ile
			180					185					190		
Glu	Asn	Cys	Ser	Asn	Met	Ala	Pro	Leu	Tyr	Ser	Asp	Ser	Tyr	Leu	Val
		195					200						205		

Phe	Trp	Ala	Ile	Phe	Asn	Leu	Val	Thr	Phe	Val	Val	Met	Val	Val	Leu
210					215						220				
Tyr	Ala	His	Ile	Phe	Gly	Tyr	Val	Arg	Gln	Arg	Thr	Met	Arg	Met	Ser
225					230					235					240
Arg	His	Ser	Ser	Gly	Pro	Arg	Arg	Asn	Arg	Asp	Thr	Met	Met	Ser	Leu
				245					250					255	
Leu	Lys	Thr	Val	Val	Ile	Val	Leu	Gly	Ala	Phe	Ile	Ile	Cys	Trp	Thr
			260					265					270		
Pro	Gly	Leu	Val	Leu	Leu	Leu	Leu	Asp	Val	Cys	Cys	Pro	Gln	Cys	Asp
		275					280					285			
Val	Leu	Ala	Tyr	Glu	Lys	Phe	Phe	Leu	Leu	Leu	Ala	Glu	Phe	Asn	Ser
	290					295					300				
Ala	Met	Asn	Pro	Ile	Ile	Tyr	Ser	Tyr	Arg	Asp	Lys	Glu	Met	Ser	Ala
305					310					315					320
Thr	Phe	Arg	Gln	Ile	Leu	Cys	Cys	Gln	Arg	Ser	Glu	Asn	Pro	Thr	Gly
			325					330						335	
Pro	Thr	Glu	Gly	Ser	Asp	Arg	Ser	Ala	Ser	Ser	Leu	Asn	His	Thr	Ile
			340					345					350		
Leu	Ala	Gly	Val	His	Ser	Asn	Asp	His	Ser	Val	Val				
		355					360								

<210> 31

<211> 351

<212> PRT

<213> Homo sapiens

<400> 31

Met	Val	Ile	Met	Gly	Gln	Cys	Tyr	Tyr	Asn	Glu	Thr	Ile	Gly	Phe	Phe
1				5					10					15	
Tyr	Asn	Asn	Ser	Gly	Lys	Glu	Leu	Ser	Ser	His	Trp	Arg	Pro	Lys	Asp
			20					25					30		
Val	Val	Val	Val	Ala	Leu	Gly	Leu	Thr	Val	Ser	Val	Leu	Val	Leu	Leu
		35				40						45			
Thr	Asn	Leu	Leu	Val	Ile	Ala	Ile	Ala	Ser	Asn	Arg	Arg	Phe	His	
	50				55					60					
Gln	Pro	Ile	Tyr	Tyr	Leu	Leu	Gly	Asn	Leu	Ala	Ala	Ala	Asp	Leu	Phe
65					70				75					80	
Ala	Gly	Val	Ala	Tyr	Leu	Phe	Leu	Met	Phe	His	Thr	Gly	Pro	Arg	Thr
			85					90					95		
Ala	Arg	Leu	Ser	Leu	Glu	Gly	Trp	Phe	Leu	Arg	Gln	Gly	Leu	Leu	Asp
			100					105					110		
Thr	Ser	Leu	Thr	Ala	Ser	Val	Ala	Thr	Leu	Leu	Ala	Ile	Ala	Val	Glu
		115				120						125			
Arg	His	Arg	Ser	Val	Met	Ala	Val	Gln	Leu	His	Ser	Arg	Leu	Pro	Arg
	130				135						140				
Gly	Arg	Val	Val	Met	Leu	Ile	Val	Gly	Val	Trp	Val	Ala	Ala	Leu	Gly
145					150					155				160	
Leu	Gly	Leu	Leu	Pro	Ala	His	Ser	Trp	His	Cys	Leu	Cys	Ala	Leu	Asp
			165					170					175		
Arg	Cys	Ser	Arg	Met	Ala	Pro	Leu	Leu	Ser	Arg	Ser	Tyr	Leu	Ala	Val
			180					185					190		
Trp	Ala	Leu	Ser	Ser	Leu	Leu	Val	Phe	Leu	Leu	Met	Val	Ala	Val	Tyr
		195				200						205			
Thr	Arg	Ile	Phe	Phe	Tyr	Val	Arg	Arg	Arg	Val	Gln	Arg	Met	Ala	Glu
	210				215						220				
His	Val	Ser	Cys	His	Pro	Arg	Tyr	Arg	Glu	Thr	Thr	Leu	Ser	Leu	Val
225					230					235				240	
Lys	Thr	Val	Val	Ile	Ile	Leu	Gly	Ala	Phe	Val	Val	Cys	Trp	Thr	Pro
			245					250						255	
Gly	Gln	Val	Val	Leu	Leu	Leu	Asp	Gly	Leu	Gly	Cys	Glu	Ser	Cys	Asn
			260					265					270		

Val	Leu	Ala	Val	Glu	Lys	Tyr	Phe	Leu	Leu	Leu	Ala	Glu	Ala	Asn	Ser
		275					280					285			
Leu	Val	Asn	Ala	Ala	Val	Tyr	Ser	Cys	Arg	Asp	Ala	Glu	Met	Arg	Arg
	290					295					300				
Thr	Phe	Arg	Arg	Leu	Leu	Cys	Cys	Ala	Cys	Leu	Arg	Gln	Ser	Thr	Arg
305					310					315					320
Glu	Ser	Val	His	Tyr	Thr	Ser	Ser	Ala	Gln	Gly	Gly	Ala	Ser	Thr	Arg
				325					330					335	
Ile	Met	Leu	Pro	Glu	Asn	Gly	His	Pro	Leu	Met	Asp	Ser	Thr	Leu	
			340					345					350		

<210> 32

<211> 382

<212> PRT

<213> Homo sapiens

<400> 32

Met	Val	Ile	Met	Gly	Gln	Cys	Tyr	Tyr	Asn	Glu	Thr	Ile	Gly	Phe	Phe
1				5					10					15	
Tyr	Asn	Asn	Ser	Gly	Lys	Glu	Leu	Ser	Ser	His	Trp	Arg	Pro	Lys	Asp
			20					25					30		
Val	Val	Val	Val	Ala	Leu	Gly	Leu	Thr	Val	Ser	Val	Leu	Val	Leu	Leu
		35					40					45			
Thr	Asn	Leu	Leu	Val	Ile	Ala	Ala	Ile	Ala	Ser	Asn	Arg	Arg	Phe	His
	50					55					60				
Gln	Pro	Ile	Tyr	Tyr	Leu	Leu	Gly	Asn	Leu	Ala	Ala	Ala	Asp	Leu	Phe
65					70					75					80
Ala	Gly	Val	Ala	Tyr	Leu	Phe	Leu	Met	Phe	His	Thr	Gly	Pro	Arg	Thr
				85					90					95	
Ala	Arg	Leu	Ser	Leu	Glu	Gly	Trp	Phe	Leu	Arg	Gln	Gly	Leu	Leu	Asp
			100					105					110		
Thr	Ser	Leu	Thr	Ala	Ser	Val	Ala	Thr	Leu	Leu	Ala	Ile	Ala	Val	Glu
		115					120					125			
Arg	His	Arg	Ser	Val	Met	Ala	Val	Gln	Leu	His	Ser	Arg	Leu	Pro	Arg
	130					135						140			
Gly	Arg	Val	Val	Met	Leu	Ile	Val	Gly	Val	Trp	Val	Ala	Ala	Leu	Gly
145					150					155					160
Leu	Gly	Leu	Leu	Pro	Ala	His	Ser	Trp	His	Cys	Leu	Cys	Ala	Leu	Asp
				165					170					175	
Arg	Cys	Ser	Arg	Met	Ala	Pro	Leu	Leu	Ser	Arg	Ser	Tyr	Leu	Ala	Val
			180					185					190		
Trp	Ala	Leu	Ser	Ser	Leu	Leu	Val	Phe	Leu	Leu	Met	Val	Ala	Val	Tyr
		195					200					205			
Thr	Arg	Ile	Phe	Phe	Tyr	Val	Arg	Arg	Arg	Val	Gln	Arg	Met	Ala	Glu
	210					215					220				
His	Val	Ser	Cys	His	Pro	Arg	Tyr	Arg	Glu	Thr	Thr	Leu	Ser	Leu	Val
225					230					235					240
Lys	Thr	Val	Val	Ile	Ile	Leu	Gly	Ala	Phe	Val	Val	Cys	Trp	Thr	Pro
				245					250					255	
Gly	Gln	Val	Val	Leu	Leu	Leu	Asp	Gly	Leu	Gly	Cys	Glu	Ser	Cys	Asn
			260					265					270		
Val	Leu	Ala	Val	Glu	Lys	Tyr	Phe	Leu	Leu	Leu	Ala	Glu	Ala	Asn	Ser
		275					280					285			
Leu	Val	Asn	Ala	Ala	Val	Tyr	Ser	Cys	Arg	Asp	Ala	Glu	Met	Arg	Arg
	290					295					300				
Thr	Phe	Arg	Arg	Leu	Leu	Cys	Cys	Ala	Cys	Leu	Arg	Gln	Ser	Thr	Arg
305					310					315					320
Glu	Ser	Val	His	Tyr	Thr	Ser	Ser	Ala	Gln	Gly	Gly	Ala	Ser	Thr	Arg
				325					330					335	
Ile	Met	Leu	Pro	Glu	Asn	Gly	His	Pro	Leu	Met	Thr	Pro	Pro	Phe	Ser
			340					345					350		

Tyr	Leu	Glu	Leu	Gln	Arg	Tyr	Ala	Ala	Ser	Asn	Lys	Ser	Thr	Ala	Pro
		355					360					365			
Asp	Asp	Leu	Trp	Val	Leu	Leu	Ala	Gln	Pro	Asn	Gln	Gln	Asp		
	370					375					380				

<210> 33

<211> 353

<212> PRT

<213> Homo sapiens

<400> 33

Met	Gly	Ser	Leu	Tyr	Ser	Glu	Tyr	Leu	Asn	Pro	Asn	Lys	Val	Gln	Glu
1				5					10					15	
His	Tyr	Asn	Tyr	Thr	Lys	Glu	Thr	Leu	Glu	Thr	Gln	Glu	Thr	Thr	Ser
		20						25					30		
Arg	Gln	Val	Ala	Ser	Ala	Phe	Ile	Val	Ile	Leu	Cys	Cys	Ala	Ile	Val
		35				40						45			
Val	Glu	Asn	Leu	Leu	Val	Leu	Ile	Ala	Val	Ala	Arg	Asn	Ser	Lys	Phe
	50					55					60				
His	Ser	Ala	Met	Tyr	Leu	Phe	Leu	Gly	Asn	Leu	Ala	Ala	Ser	Asp	Leu
65				70					75						80
Leu	Ala	Gly	Val	Ala	Phe	Val	Ala	Asn	Thr	Leu	Leu	Ser	Gly	Ser	Val
				85					90					95	
Thr	Leu	Arg	Leu	Thr	Pro	Val	Gln	Trp	Phe	Ala	Arg	Glu	Gly	Ser	Ala
			100					105					110		
Ser	Ile	Thr	Leu	Ser	Ala	Ser	Val	Phe	Ser	Leu	Leu	Ala	Ile	Ala	Ile
	115						120					125			
Glu	Arg	His	Val	Ala	Ile	Ala	Lys	Val	Lys	Leu	Tyr	Gly	Ser	Asp	Lys
	130					135					140				
Ser	Cys	Arg	Met	Leu	Leu	Ile	Gly	Ala	Ser	Trp	Leu	Ile	Ser	Leu	
145				150					155					160	
Val	Leu	Gly	Gly	Leu	Pro	Ile	Leu	Gly	Trp	Asn	Cys	Leu	Gly	His	Leu
				165					170					175	
Glu	Ala	Cys	Ser	Thr	Val	Leu	Pro	Leu	Tyr	Ala	Lys	His	Tyr	Val	Leu
			180					185					190		
Cys	Val	Val	Thr	Ile	Phe	Ser	Ile	Leu	Leu	Ala	Ile	Val	Ala	Leu	
	195						200				205				
Tyr	Val	Arg	Ile	Tyr	Cys	Val	Val	Arg	Ser	Ser	His	Ala	Asp	Met	Ala
	210				215						220				
Ala	Pro	Gln	Thr	Leu	Ala	Leu	Leu	Lys	Thr	Val	Thr	Ile	Val	Leu	Gly
225					230					235					240
Val	Phe	Ile	Val	Cys	Trp	Leu	Pro	Ala	Phe	Ser	Ile	Leu	Leu	Leu	Asp
				245					250					255	
Tyr	Ala	Cys	Pro	Val	His	Ser	Cys	Pro	Ile	Leu	Tyr	Lys	Ala	His	Tyr
			260					265					270		
Phe	Phe	Ala	Val	Ser	Thr	Leu	Asn	Ser	Leu	Leu	Asn	Pro	Val	Ile	Tyr
	275						280					285			
Thr	Trp	Arg	Ser	Arg	Asp	Leu	Arg	Arg	Glu	Val	Leu	Arg	Pro	Leu	Gln
	290					295					300				
Cys	Trp	Arg	Pro	Gly	Val	Gly	Val	Gln	Gly	Arg	Arg	Arg	Val	Gly	Thr
305					310					315					320
Pro	Gly	His	His	Leu	Leu	Pro	Leu	Arg	Ser	Ser	Ser	Ser	Leu	Glu	Arg
				325					330					335	
Gly	Met	His	Met	Pro	Thr	Ser	Pro	Thr	Phe	Leu	Glu	Gly	Asn	Thr	Val
			340					345					350		

<210> 34

<211> 384

<212> PRT

<213> Homo sapiens

<400> 34

Met	Asn	Ala	Thr	Gly	Thr	Pro	Val	Ala	Pro	Glu	Ser	Cys	Gln	Gln	Leu
1				5					10					15	
Ala	Ala	Gly	Gly	His	Ser	Arg	Leu	Ile	Val	Leu	His	Tyr	Asn	His	Ser
			20					25					30		
Gly	Arg	Leu	Ala	Gly	Arg	Gly	Gly	Pro	Glu	Asp	Gly	Gly	Leu	Gly	Ala
		35				40						45			
Leu	Arg	Gly	Leu	Ser	Val	Ala	Ser	Cys	Leu	Val	Val	Leu	Glu	Asn	
	50					55				60					
Leu	Leu	Val	Leu	Ala	Ala	Ile	Thr	Ser	His	Met	Arg	Ser	Arg	Arg	Trp
65				70						75					80
Val	Tyr	Tyr	Cys	Leu	Val	Asn	Ile	Thr	Leu	Ser	Asp	Leu	Leu	Thr	Gly
			85						90					95	
Ala	Ala	Tyr	Leu	Ala	Asn	Val	Leu	Leu	Ser	Gly	Ala	Arg	Thr	Phe	Arg
			100					105					110		
Leu	Ala	Pro	Ala	Gln	Trp	Phe	Leu	Arg	Glu	Gly	Leu	Leu	Phe	Thr	Ala
		115					120					125			
Leu	Ala	Ala	Ser	Thr	Phe	Ser	Leu	Leu	Phe	Thr	Ala	Gly	Glu	Arg	Phe
		130				135					140				
Ala	Thr	Met	Val	Arg	Pro	Val	Ala	Glu	Ser	Gly	Ala	Thr	Lys	Thr	Ser
145					150					155					160
Arg	Val	Tyr	Gly	Phe	Ile	Gly	Leu	Cys	Trp	Leu	Leu	Ala	Ala	Leu	Leu
				165					170					175	
Gly	Met	Leu	Pro	Leu	Leu	Gly	Trp	Asn	Cys	Leu	Cys	Ala	Phe	Asp	Arg
			180					185					190		
Cys	Ser	Ser	Leu	Leu	Pro	Leu	Tyr	Ser	Lys	Arg	Tyr	Ile	Leu	Phe	Cys
		195					200					205			
Leu	Val	Ile	Phe	Ala	Gly	Val	Leu	Ala	Thr	Ile	Met	Gly	Leu	Tyr	Gly
	210					215					220				
Ala	Ile	Phe	Arg	Leu	Val	Gln	Ala	Ser	Gly	Gln	Lys	Ala	Pro	Arg	Pro
225					230					235					240
Ala	Ala	Arg	Arg	Lys	Ala	Arg	Arg	Leu	Leu	Lys	Thr	Val	Leu	Met	Ile
				245					250					255	
Leu	Leu	Ala	Phe	Leu	Val	Cys	Trp	Gly	Pro	Leu	Phe	Gly	Leu	Leu	Leu
			260					265					270		
Ala	Asp	Val	Phe	Gly	Ser	Asn	Leu	Trp	Ala	Gln	Glu	Tyr	Leu	Arg	Gly
		275					280					285			
Met	Asp	Trp	Ile	Leu	Ala	Leu	Ala	Val	Leu	Asn	Ser	Ala	Val	Asn	Pro
	290					295					300				
Ile	Ile	Tyr	Ser	Phe	Arg	Ser	Arg	Glu	Val	Cys	Arg	Ala	Val	Leu	Ser
305					310					315					320
Phe	Leu	Cys	Cys	Gly	Cys	Leu	Arg	Leu	Gly	Met	Arg	Gly	Pro	Gly	Asp
				325					330					335	
Cys	Leu	Ala	Arg	Ala	Val	Glu	Ala	His	Ser	Gly	Ala	Ser	Thr	Thr	Asp
			340					345					350		
Ser	Ser	Leu	Arg	Pro	Arg	Asp	Ser	Phe	Arg	Gly	Ser	Arg	Ser	Leu	Ser
		355					360					365			
Phe	Arg	Met	Arg	Glu	Pro	Leu	Ser	Ser	Ile	Ser	Ser	Val	Arg	Ser	Ile
	370					375					380				

<210> 35

<211> 353

<212> PRT

<213> Homo sapiens

<400> 35

Pro	Arg	Phe	His	Ala	Pro	Met	Phe	Leu	Leu	Leu	Gly	Ser	Leu	Thr	Leu
65					70					75					80
Ser	Asp	Leu	Leu	Ala	Gly	Ala	Ala	Tyr	Ala	Ala	Asn	Ile	Leu	Leu	Ser
				85					90					95	
Gly	Pro	Leu	Thr	Leu	Lys	Leu	Ser	Pro	Ala	Leu	Trp	Phe	Ala	Arg	Glu
			100					105					110		
Gly	Gly	Val	Phe	Val	Ala	Leu	Thr	Ala	Ser	Val	Leu	Ser	Leu	Leu	Ala
		115					120					125			
Ile	Ala	Leu	Glu	Arg	Ser	Leu	Thr	Met	Ala	Arg	Arg	Gly	Pro	Ala	Pro
	130					135					140				
Val	Ser	Ser	Arg	Gly	Arg	Thr	Leu	Ala	Met	Ala	Ala	Ala	Ala	Trp	Gly
145					150					155					160
Val	Ser	Leu	Leu	Leu	Gly	Leu	Leu	Pro	Ala	Leu	Gly	Trp	Asn	Cys	Leu
				165					170					175	
Gly	Arg	Leu	Asp	Ala	Cys	Ser	Thr	Val	Leu	Pro	Leu	Tyr	Ala	Lys	Ala
			180					185					190		
Tyr	Val	Leu	Phe	Cys	Val	Leu	Ala	Phe	Val	Gly	Ile	Leu	Ala	Ala	Ile
		195					200					205			
Cys	Ala	Leu	Tyr	Ala	Arg	Ile	Tyr	Cys	Gln	Val	Arg	Ala	Asn	Ala	Arg
	210					215					220				
Arg	Leu	Pro	Ala	Arg	Pro	Gly	Thr	Ala	Gly	Thr	Thr	Ser	Thr	Arg	Ala
225					230					235					240
Arg	Arg	Lys	Pro	Arg	Ser	Leu	Ala	Leu	Leu	Arg	Thr	Leu	Ser	Val	Val
				245					250					255	
Leu	Leu	Ala	Phe	Val	Ala	Cys	Trp	Gly	Pro	Leu	Phe	Leu	Leu	Leu	Leu
			260					265					270		
Leu	Asp	Val	Ala	Cys	Pro	Ala	Arg	Thr	Cys	Pro	Val	Leu	Leu	Gln	Ala
		275					280					285			
Asp	Pro	Phe	Leu	Gly	Leu	Ala	Met	Ala	Asn	Ser	Leu	Leu	Asn	Pro	Ile
	290					295					300				
Ile	Tyr	Thr	Leu	Thr	Asn	Arg	Asp	Leu	Arg	His	Ala	Leu	Leu	Arg	Leu
305					310					315					320
Val	Cys	Cys	Gly	Arg	His	Ser	Cys	Gly	Arg	Asp	Pro	Ser	Gly	Ser	Gln
				325					330					335	
Gln	Ser	Ala	Ser	Ala	Ala	Glu	Ala	Ser	Gly	Gly	Leu	Arg	Arg	Cys	Leu
			340					345					350		
Pro	Pro	Gly	Leu	Asp	Gly	Ser	Phe	Ser	Gly	Ser	Glu	Arg	Ser	Ser	Pro
		355					360					365			
Gln	Arg	Asp	Gly	Leu	Asp	Thr	Ser	Gly	Ser	Thr	Gly	Ser	Pro	Gly	Ala
	370					375					380				
Pro	Thr	Ala	Ala	Arg	Thr	Leu	Val	Ser	Glu	Pro	Ala	Ala	Asp		
385					390					395					

<210> 37

<211> 372

<212> PRT

<213> Artificial

<220>

<223> Description of artificial sequence: Chimeric Edg receptor

<400> 37

Met	Gly	Ser	Leu	Tyr	Ser	Glu	Tyr	Leu	Asn	Pro	Asn	Lys	Val	Gln	Glu
1				5					10					15	
His	Tyr	Asn	Tyr	Thr	Lys	Glu	Thr	Leu	Glu	Thr	Gln	Glu	Thr	Thr	Ser
			20					25					30		
Arg	Gln	Val	Ala	Ser	Ala	Phe	Ile	Val	Ile	Leu	Cys	Cys	Ala	Ile	Val
		35					40					45			
Val	Glu	Asn	Leu	Leu	Val	Leu	Ile	Ala	Val	Ala	Arg	Asn	Ser	Lys	Phe
	50					55					60				

His	Ser	Ala	Met	Tyr	Leu	Phe	Leu	Gly	Asn	Leu	Ala	Ala	Ser	Asp	Leu
65					70					75					80
Leu	Ala	Gly	Val	Ala	Phe	Val	Ala	Asn	Thr	Leu	Leu	Ser	Gly	Ser	Val
				85					90					95	
Thr	Leu	Arg	Leu	Thr	Pro	Val	Gln	Trp	Phe	Ala	Arg	Glu	Gly	Ser	Ala
			100					105					110		
Ser	Ile	Thr	Leu	Ser	Ala	Ser	Val	Phe	Ser	Leu	Leu	Ala	Ile	Ala	Ile
		115					120					125			
Glu	Arg	His	Val	Ala	Ile	Ala	Lys	Val	Lys	Leu	Tyr	Gly	Ser	Asp	Lys
	130					135					140				
Ser	Cys	Arg	Met	Leu	Leu	Leu	Ile	Gly	Ala	Ser	Trp	Leu	Ile	Ser	Leu
145					150					155					160
Val	Leu	Gly	Gly	Leu	Pro	Ile	Leu	Gly	Trp	Asn	Cys	Leu	Gly	His	Leu
				165					170					175	
Glu	Ala	Cys	Ser	Thr	Val	Leu	Pro	Leu	Tyr	Ala	Lys	His	Tyr	Val	Leu
			180					185					190		
Cys	Val	Val	Thr	Ile	Phe	Ser	Ile	Ile	Leu	Leu	Ala	Ile	Val	Ala	Leu
		195					200					205			
Tyr	Val	Arg	Ile	Tyr	Cys	Val	Val	Lys	Ser	Ser	Ser	Arg	Lys	Val	Ala
	210					215					220				
Asn	His	Asn	Asn	Ser	Glu	Arg	Ser	Met	Ala	Leu	Leu	Arg	Thr	Val	Thr
225					230					235					240
Ile	Val	Leu	Gly	Val	Phe	Ile	Val	Cys	Trp	Leu	Pro	Ala	Phe	Ser	Ile
				245					250					255	
Leu	Leu	Leu	Asp	Tyr	Ala	Cys	Pro	Val	His	Ser	Cys	Pro	Ile	Leu	Tyr
			260					265					270		
Lys	Ala	His	Tyr	Phe	Phe	Ala	Val	Ser	Thr	Leu	Asn	Ser	Leu	Leu	Asn
		275					280					285			
Pro	Val	Ile	Tyr	Thr	Trp	Ala	Ser	Lys	Glu	Met	Arg	Arg	Ala	Phe	Phe
	290					295					300				
Arg	Leu	Val	Cys	Asn	Cys	Leu	Val	Arg	Gly	Arg	Gly	Ala	Arg	Ala	Ser
305					310					315					320
Pro	Ile	Gln	Pro	Ala	Leu	Asp	Pro	Ser	Arg	Ser	Lys	Ser	Ser	Ser	Ser
				325					330					335	
Asn	Asn	Ser	Ser	His	Ser	Pro	Lys	Val	Lys	Glu	Asp	Leu	Pro	His	Thr
			340					345				350			
Asp	Pro	Ser	Ser	Cys	Ile	Met	Asp	Lys	Asn	Ala	Ala	Leu	Gln	Asn	Gly
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Ile	Phe	Cys	Asn												
	370														

<210> 38

<211> 393

<212> PRT

<213> Artificial

<220>

<223> Description of artificial sequence: Chimeric Edg receptor

<400> 38

Met	Glu	Ser	Gly	Leu	Leu	Arg	Pro	Ala	Pro	Val	Ser	Glu	Val	Ile	Val
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Leu	His	Tyr	Asn	Tyr	Thr	Gly	Lys	Leu	Arg	Gly	Ala	Arg	Tyr	Gln	Pro
			20					25					30		
Gly	Ala	Gly	Leu	Arg	Ala	Asp	Ala	Val	Val	Cys	Leu	Ala	Val	Cys	Ala
		35				40						45			
Phe	Ile	Val	Leu	Glu	Asn	Leu	Ala	Val	Leu	Leu	Val	Leu	Gly	Arg	His
	50				55						60				
Pro	Arg	Phe	His	Ala	Pro	Met	Phe	Leu	Leu	Leu	Gly	Ser	Leu	Thr	Leu
65					70					75					80

[illegible]